

ABSTRACT

A planar optical waveguide is formed with an optical circuit having an inclined groove. A reflection filter is installed on the inside of the inclined groove 3 crossing a plurality of optical waveguides. Reflected light from the reflection filter is detected by an array of photodetectors to monitor the optical intensity of the signal light. The photodetector array is held by a sub-mounting substrate disposed at the top side of the optical circuit so that a mounting face of the photodetector array is inclined at an angle α ($0^\circ < \alpha < 90^\circ$) with respect to the top surface of the optical circuit such that the reflected light from the reflection filter is made incident onto a light incident face of the photodetectors at a predetermined angle ϕ . The optical waveguide module is capable of monitoring the optical intensity correctly regardless of the polarization state of the signal light.